

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal712jxr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
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NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
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NEWS	43	Jun 06	PASCAL enhanced with additional data

NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS 45 Jun 25 HSDB has been reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:26:59 ON 03 JUL 2003

=> FIL REGISTRY		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:27:08 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

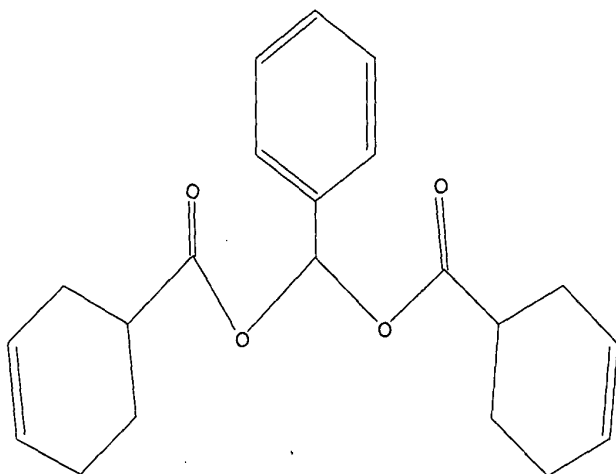
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STN Note 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 10032128.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 exa sam

SAMPLE SEARCH INITIATED 13:27:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA EXA SAM L1

=> s l1 sss sam

SAMPLE SEARCH INITIATED 13:27:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 488 TO ITERATE

100.0% PROCESSED 488 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 8435 TO 11085

PROJECTED ANSWERS: 1 TO 79

L3 1 SEA SSS SAM L1

=> d scasn

'SCASN' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data

IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):scan
'SCAN' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
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SQD - Protein sequence data, includes RN
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SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
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PROP - EPROP and CALC

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The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):d scan
'D' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'SCAN' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

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FIDE - All substance data, except sequence data
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SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats

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IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):reg
1 RN 2929-70-6 REGISTRY

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.38	1.59

FILE 'REGISTRY' ENTERED AT 13:28:40 ON 03 JUL 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> S 2929-70-6/RN

L4 1 2929-70-6/RN

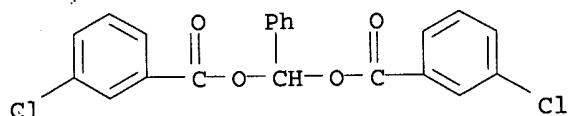
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L4 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 2929-70-6 REGISTRY
CN Benzoic acid, m-chloro-, benzylidene ester (7CI, 8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Toluene-.alpha.,.alpha.-diol, bis(m-chlorobenzoate)
FS 3D CONCORD
MF C21 H14 Cl2 O4
LC STN Files: CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)
3 REFERENCES IN FILE CAPLUS (1957 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> s l1 exa full
FULL SEARCH INITIATED 13:29:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9 TO ITERATE

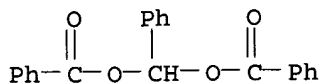
100.0% PROCESSED 9 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

L5 1 SEA EXA FUL L1

=> d scan

L5 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Methanediol, phenyl-, dibenzoate (9CI)
MF C21 H16 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	52.23	53.82

STN INTERNATIONAL LOGOFF AT 13:29:53 ON 03 JUL 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sspta1712jxr

PASSWORD:

LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.
You either typed them incorrectly, or line noise may
have corrupted them.

Do you wish to retry the logon?

Enter choice (y/N):

Do you wish to use the same loginid and password?

Enter choice (y/N):

Enter new loginid (or press [Enter] for sspta1712jxr):

Enter new password:

LOGINID:

LOGINID:ssspta1712jxr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS	44	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	45	Jun 25	HSDB has been reloaded
NEWS	EXPRESS		April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS	HOURS		STN Operating Hours Plus Help Desk Availability
NEWS	INTER		General Internet Information
NEWS	LOGIN		Welcome Banner and News Items
NEWS	PHONE		Direct Dial and Telecommunication Network Access to STN
NEWS	WWW		CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:34:35 ON 03 JUL 2003

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:34:44 ON 03 JUL 2003

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STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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=>

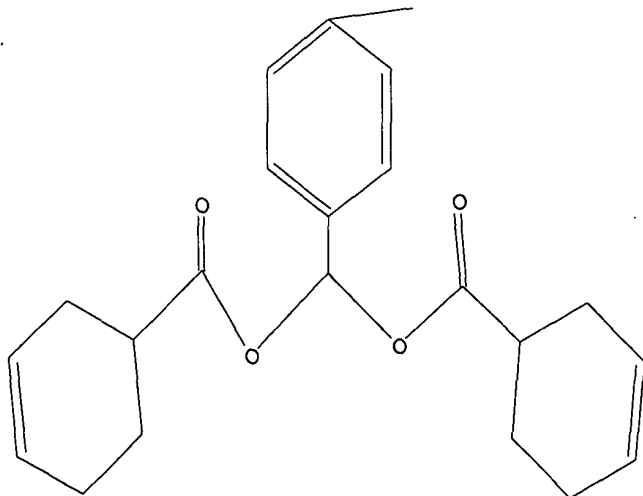
Uploading 10032128.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 exa sam

SAMPLE SEARCH INITIATED 13:35:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA EXA SAM L1

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.40

0.61

STN INTERNATIONAL LOGOFF AT 13:35:35 ON 03 JUL 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712jxr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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 agreement. Please note that this agreement limits use to scientific
 research. Use for software development or design or implementation
 of commercial gateways or other similar uses is prohibited and may
 result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:46:02 ON 03 JUL 2003

=> FIL REGISTRY
 COST IN U.S. DOLLARS

SINCE FILE TOTAL
 ENTRY SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:46:12 ON 03 JUL 2003
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 10032128struc2.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 exa sam

SAMPLE SEARCH INITIATED 13:47:03 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA EXA SAM L1

=>

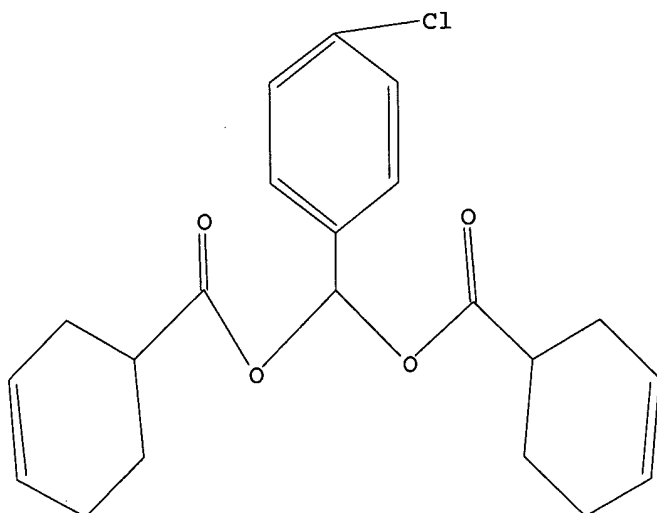
Uploading 10032128struc3.str

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l3 exa sam
SAMPLE SEARCH INITIATED 13:47:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE
```

```
100.0% PROCESSED      0 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   0 TO      0
PROJECTED ANSWERS:      0 TO      0
```

```
L4          0 SEA EXA SAM L3
```

```
=>
Uploading 10032128struc4.str
```

```
L5          STRUCTURE UPLOADED
```

```
=> s l5 exa sam
SAMPLE SEARCH INITIATED 13:48:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE
```

```
100.0% PROCESSED      0 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   0 TO      0
PROJECTED ANSWERS:      0 TO      0
```

```
L6          0 SEA EXA SAM L5
```

```
=>
Uploading 10032128struc5.str
```

```
L7          STRUCTURE UPLOADED
```

```
=> s l7 sss sam
SAMPLE SEARCH INITIATED 13:48:29 FILE 'REGISTRY'
```

SAMPLE SCREEN SEARCH COMPLETED - 99 TO ITERATE

100.0% PROCESSED 99 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1384 TO 2576
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s l7 sss full
FULL SEARCH INITIATED 13:48:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2144 TO ITERATE

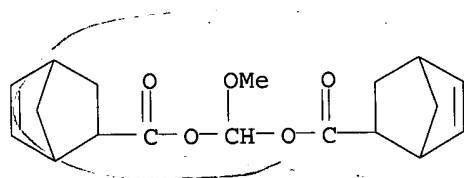
100.0% PROCESSED 2144 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

L9 3 SEA SSS FUL L7

=> d scan

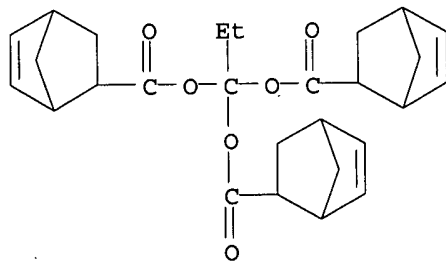
L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)
MF C18 H22 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

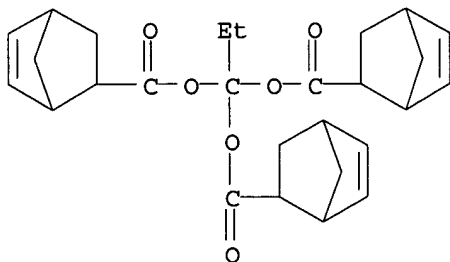
L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester (9CI)
MF C27 H32 O6
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester, homopolymer
 (9CI)
 MF (C27 H32 O6)x
 CI PMS
 CM 1



ALL ANSWERS HAVE BEEN SCANNED

=> d ibib 1
 'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
 SAM - Index Name, MF, and structure - no RN
 FIDE - All substance data, except sequence data
 IDE - FIDE, but only 50 names
 SQIDE - IDE, plus sequence data
 SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
 SQD - Protein sequence data, includes RN
 SQD3 - Same as SQD, but 3-letter amino acid codes are used
 SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
 EPROP - Table of experimental properties
 PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
 APPS -- Application and Priority Information
 BIB -- CA Accession Number, plus Bibliographic Data
 CAN -- CA Accession Number
 CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
 IND -- Index Data
 IPC -- International Patent Classification
 PATS -- PI, SO
 STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
 IBIB -- BIB, indented, with text labels
 ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):abs
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
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BIB -- CA Accession Number, plus Bibliographic Data
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CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when

it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

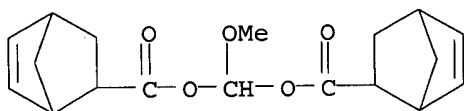
HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):sam

L9 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS

IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)

MF C18 H22 O5



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

=> d bib 1

'BIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
 IBIB -- BIB, indented, with text labels
 ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

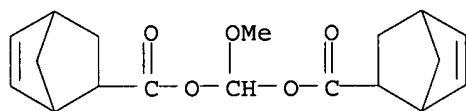
For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
 HELP FORMATS -- To see detailed descriptions of the predefined formats.
 ENTER DISPLAY FORMAT (IDE):all

L9 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
 RN 318239-96-2 REGISTRY
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H22 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
=====	=====	=====	=====	=====	=====
C5-C5	C5-C5	5-5	C7	103.10.3	2



Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
=====	=====	=====	=====
Bioconc. Factor (BCF)	1022	pH 1	(1) ACD
Bioconc. Factor (BCF)	1022	pH 4	(1) ACD
Bioconc. Factor (BCF)	1022	pH 7	(1) ACD
Bioconc. Factor (BCF)	1022	pH 8	(1) ACD
Bioconc. Factor (BCF)	1022	pH 10	(1) ACD
Boiling Point (BP)	424.5+/-45.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (Hvap)	67.89+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	186.3+/-51.8 deg C		(1) ACD
H acceptors (HAC)	5		(1) ACD

H donors (HD)	0		(1) ACD
Koc (KOC)	4964	pH 1	(1) ACD
Koc (KOC)	4964	pH 4	(1) ACD
Koc (KOC)	4964	pH 7	(1) ACD
Koc (KOC)	4964	pH 8	(1) ACD
Koc (KOC)	4964	pH 10	(1) ACD
logD (LOGD)	4.26	pH 1	(1) ACD
logD (LOGD)	4.26	pH 4	(1) ACD
logD (LOGD)	4.26	pH 7	(1) ACD
logD (LOGD)	4.26	pH 8	(1) ACD
logD (LOGD)	4.26	pH 10	(1) ACD
logP (LOGP)	4.263+/-0.525		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	318.36		(1) ACD
Vapor Pressure (VP)	2.06E-07 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.67 ((C) 1994-2003 ACD)

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 134:93337 CA
TI Carboxylic acid derivatives and their synthesis method
IN Seo, Dong Chul; Park, Joo Hyeon; Kim, Jae Young; Kim, Seong Ju
PA Korea Kumho Petrochemical Co. Ltd., S. Korea
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C07C069-75
ICS C07C067-11; C07C069-753; C07C069-608; C07J009-00; C07C069-00
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 25

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1067112	A2	20010110	EP 1999-307985	19991011
	EP 1067112	A3	20020327		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	KR 2001009339	A	20010205	KR 1999-27670	19990709
	JP 2001039928	A2	20010213	JP 1999-293288	19991015
	US 6313327	B1	20011106	US 1999-425961	19991025

PRAI KR 1999-27670 19990709

AB This invention relates to the synthesis of novel carboxylic acid derivs. represented by the formula, $\text{CHR}_1(\text{R}_2)_2$, where, R_1 is an H atom, an alkyl group or an alkoxy group of 1 to 20 C atoms in a linear, branched or cyclic form; R_2 is a carboxy group of 1 to 40 C atoms in a linear, branched or cyclic form which is unsubstituted, or substituted into a hydroxy group, an ester group and an ether group. The novel carboxylic acid derivs. are more easily decompd. by acid than tert-Bu ester compds. but are not dissolved in basic aq. soln. According to this invention, carboxylic acid is under condensation with halogen compds. designed to prep. a larger monomol. compd. compared to the conventional method. Further, the condensed site is easily decompd. by acid but is extremely insol. by basic aq. soln. The carboxylic acid derivs. in a photoresist compn. function not only as a dissoln. promoter in the exposed area due to

formation of the carboxylic acid, thus enhancement of etching resistance and pattern profile in a resist.

ST carboxylic acid deriv dissoln promoter etching photoresist

IT Dissolution

Etching

Photoresists

(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

IT Carboxylic acids, preparation

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

IT 7440-21-3, Silicon, uses

RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)

(carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. coated on)

IT 66003-78-9, Triphenylsulfonium trifluoromethane sulfonate 318240-07-2 318240-10-7

RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)

(carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. contg.)

IT 75-11-6P, Diiodomethane 81-25-4P, Cholic acid 83-44-3P, Deoxycholic acid 83-49-8P, Hyodeoxycholic acid 98-89-5P, Cyclohexanecarboxylic acid 120-74-1P 434-13-9P 828-51-3P, 1-Adamantanecarboxylic acid 1007-01-8P, Bicyclo[2.2.1]heptane-2-acetic acid 4885-02-3P 4942-47-6P, 1-Adamantaneacetic acid 5451-55-8P, 4-tert-Butylcyclohexanecarboxylic acid 18720-30-4P, Bicyclo[2.2.1]heptane-1-carboxylic acid 318239-92-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of carboxylic acid derivs. as dissoln. promoters in photoresist compns. using)

IT 318239-93-9P 318239-94-0P 318239-95-1P 318239-96-2P 318239-97-3P 318239-98-4P 318239-99-5P 318240-00-5P 318240-01-6P 318240-02-7P 318240-03-8P 318240-04-9P 318294-03-0P

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

=>

Uploading 10032128struc6.str

L10 STRUCTURE UPLOADED

=> s l10 sss sam

SAMPLE SEARCH INITIATED 13:51:49 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 667 TO ITERATE

100.0% PROCESSED 667 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 11791 TO 14889

PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s l10 sss full

FULL SEARCH INITIATED 13:51:58 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13545 TO ITERATE

100.0% PROCESSED 13545 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L12 0 SEA SSS FUL L10

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

306.02	306.23
--------	--------

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-0.62	-0.62
-------	-------

STN INTERNATIONAL LOGOFF AT 13:52:05 ON 03 JUL 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal712jxr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	JAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content
NEWS 18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20	Feb 13	CANCERLIT is no longer being updated
NEWS 21	Feb 24	METADEX enhancements
NEWS 22	Feb 24	PCTGEN now available on STN
NEWS 23	Feb 24	TEMA now available on STN
NEWS 24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 25	Feb 26	PCTFULL now contains images
NEWS 26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27	Mar 20	EVENTLINE will be removed from STN
NEWS 28	Mar 24	PATDPAFULL now available on STN
NEWS 29	Mar 24	Additional information for trade-named substances without

structures available in REGISTRY

NEWS 30 Apr 11 Display formats in DGENE enhanced

NEWS 31 Apr 14 MEDLINE Reload

NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced

NEWS 33 Jun 13 Indexing from 1947 to 1956 added to records in CA/CAPLUS

NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in
WPIDS/WPINDEX/WPIX

NEWS 35 Apr 28 RDISCLOSURE now available on STN

NEWS 36 May 05 Pharmacokinetic information and systematic chemical names
added to PHAR

NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded

NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated

NEWS 39 May 16 CHEMREACT will be removed from STN

NEWS 40 May 19 Simultaneous left and right truncation added to WSCA

NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and
right truncation

NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB

NEWS 43 Jun 06 PASCAL enhanced with additional data

NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available

NEWS 45 Jun 25 HSDB has been reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:43:21 ON 03 JUL 2003

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:43:48 ON 03 JUL 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 10032128struc6.str

L1 STRUCTURE UPLOADED

=> s l1 sss full

FULL SEARCH INITIATED 15:44:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13545 TO ITERATE

100.0% PROCESSED 13545 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

Uploading 10032128struc5.str

L3 STRUCTURE UPLOADED

=> s l3 sss full

FULL SEARCH INITIATED 15:44:49 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2144 TO ITERATE

100.0% PROCESSED 2144 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

L4 3 SEA SSS FUL L3

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L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS

RN 318239-96-2 REGISTRY

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)
(CA INDEX NAME)

FS 3D CONCORD

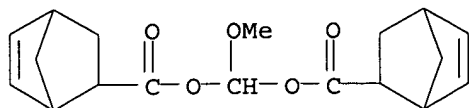
MF C18 H22 O5

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C5-C5	C5-C5	5-5	C7	103.10.3	2



Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	1022	pH 1	(1) ACD
Bioconc. Factor (BCF)	1022	pH 4	(1) ACD
Bioconc. Factor (BCF)	1022	pH 7	(1) ACD
Bioconc. Factor (BCF)	1022	pH 8	(1) ACD
Bioconc. Factor (BCF)	1022	pH 10	(1) ACD
Boiling Point (BP)	424.5+/-45.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (Hvap)	67.89+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	186.3+/-51.8 deg C		(1) ACD
H acceptors (HAC)	5		(1) ACD
H donors (HD)	0		(1) ACD
Koc (KOC)	4964	pH 1	(1) ACD
Koc (KOC)	4964	pH 4	(1) ACD
Koc (KOC)	4964	pH 7	(1) ACD
Koc (KOC)	4964	pH 8	(1) ACD
Koc (KOC)	4964	pH 10	(1) ACD
logD (LOGD)	4.26	pH 1	(1) ACD
logD (LOGD)	4.26	pH 4	(1) ACD
logD (LOGD)	4.26	pH 7	(1) ACD
logD (LOGD)	4.26	pH 8	(1) ACD
logD (LOGD)	4.26	pH 10	(1) ACD
logP (LOGP)	4.263+/-0.525		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	318.36		(1) ACD
Vapor Pressure (VP)	2.06E-07 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.67 ((C) 1994-2003 ACD)

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 134:93337 CA
TI Carboxylic acid derivatives and their synthesis method
IN Seo, Dong Chul; Park, Joo Hyeon; Kim, Jae Young; Kim, Seong Ju
PA Korea Kumho Petrochemical Co. Ltd., S. Korea
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C07C069-75
ICS C07C067-11; C07C069-753; C07C069-608; C07J009-00; C07C069-00
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 25

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1067112	A2	20010110	EP 1999-307985	19991011
	EP 1067112	A3	20020327		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	KR 2001009339	A	20010205	KR 1999-27670	19990709
	JP 2001039928	A2	20010213	JP 1999-293288	19991015
	US 6313327	B1	20011106	US 1999-425961	19991025
PRAI	KR 1999-27670		19990709		
AB	This invention relates to the synthesis of novel carboxylic acid derivs. represented by the formula, CHR1(R2)2, where, R1 is an H atom, an alkyl group or an alkoxy group of 1 to 20 C atoms in a linear, branched or cyclic form; R2 is a carboxy group of 1 to 40 C atoms in a linear, branched or cyclic form which is unsubstituted, or substituted into a hydroxy group, an ester group and an ether group. The novel carboxylic acid derivs. are more easily decompd. by acid than tert-Bu ester compds. but are not dissolved in basic aq. soln. According to this invention, carboxylic acid is under condensation with halogen compds. designed to prep. a larger monomol. compd. compared to the conventional method. Further, the condensed site is easily decompd. by acid but is extremely insol. by basic aq. soln. The carboxylic acid derivs. in a photoresist compn. function not only as a dissoln. promoter in the exposed area due to formation of the carboxylic acid, thus enhancement of etching resistance and pattern profile in a resist.				
ST	carboxylic acid deriv dissoln promoter etching photoresist				
IT	Dissolution Etching Photoresists (synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)				
IT	Carboxylic acids, preparation RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)				
IT	7440-21-3, Silicon, uses RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses) (carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. coated on)				
IT	66003-78-9, Triphenylsulfonium trifluoromethane sulfonate 318240-07-2 318240-10-7 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses) (carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. contg.)				
IT	75-11-6P, Diiodomethane 81-25-4P, Cholic acid 83-44-3P, Deoxycholic acid 83-49-8P, Hyodeoxycholic acid 98-89-5P, Cyclohexanecarboxylic acid 120-74-1P 434-13-9P 828-51-3P, 1-Adamantanecarboxylic acid 1007-01-8P, Bicyclo[2.2.1]heptane-2-acetic acid 4885-02-3P 4942-47-6P, 1-Adamantaneacetic acid 5451-55-8P, 4-tert-Butylcyclohexanecarboxylic acid 18720-30-4P, Bicyclo[2.2.1]heptane-1-carboxylic acid 318239-92-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of carboxylic acid derivs. as dissoln. promoters in photoresist compns. using)				
IT	318239-93-9P	318239-94-0P	318239-95-1P	318239-96-2P	318239-97-3P
	318239-98-4P	318239-99-5P	318240-00-5P	318240-01-6P	318240-02-7P
	318240-03-8P	318240-04-9P	318294-03-0P		
	RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (synthesis of carboxylic acid derivs. useful as dissoln. promoters for				

enhancing etching resist pattern in photoresist compns.)

L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 245346-00-3 REGISTRY
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester, homopolymer
(9CI) (CA INDEX NAME)
MF (C27 H32 O6)x
CI PMS
PCT Polyother, Polyother only
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

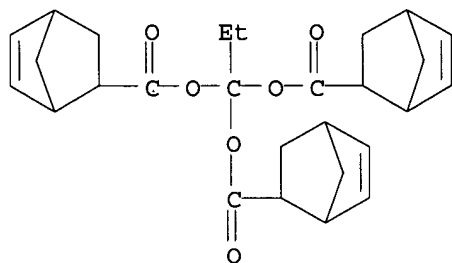
Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C5-C5	C5-C5	5-5	C7	103.10.3	3

CM 1

CRN 245345-99-7

CMF C27 H32 O6



1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 131:272336 CA
TI Ruthenium and osmium carbene carbonyl catalysts
IN Van Der Schaaf, Paul Adriaan; Kolly, Roman; Muhlebach, Andreas; Hafner, Andreas
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C08G061-00
CC 35-3 (Chemistry of Synthetic High Polymers)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9950330	A2	19991007	WO 1999-EP1914	19990322
	WO 9950330	A3	19991118		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,

MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG .

AU 9935198 A1 19991018 AU 1999-35198 19990322
 EP 1070091 A2 20010124 EP 1999-916859 19990322
 R: BE, DE, FR, NL
 JP 2002509960 T2 20020402 JP 2000-541227 19990322
 US 6465554 B1 20021015 US 2000-647031 20000925
 PRAI CH 1998-774 19980331
 WO 1999-EP1914 19990322

AB Hexacoordinated Ru and Os carbenes with a carbonyl group ligands and vinyl
 group substituents on the carbene group are catalysts for the photoinduced
 ring-opening metathesis of strained cycloolefins.

ST ruthenium cycloolefin polymn catalyst; osmium cycloolefin polymn catalyst;
 carbene carbonyl ruthenium polymn catalyst

IT Polymerization
 Polymerization catalysts
 (metathetic; Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT Cycloalkenes
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (polymers; Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT Polymerization catalysts
 (ring-opening; Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT 245345-94-2P 245345-95-3P 245345-96-4P
 RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
 USES (Uses)
 (Ruthenium and osmium carbene carbonyl polymn. catalysts)

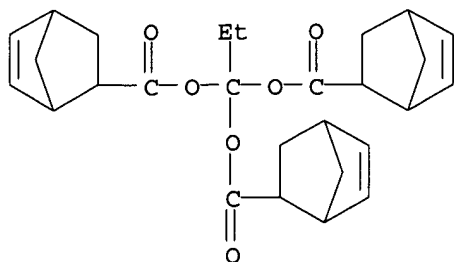
IT 27176-60-9 30421-42-2 150274-86-5 245346-00-3 245346-01-4
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT 1111-97-3 36621-70-2 102513-17-7 245345-98-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Ruthenium and osmium carbene carbonyl polymn. catalysts)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS
 RN 245345-99-7 REGISTRY
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester (9CI) (CA
 INDEX NAME)
 MF C27 H32 O6
 CI COM
 SR CA

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C5-C5	C5-C5	5-5	C7	103.10.3	3



Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	114848	pH 1	(1) ACD
Bioconc. Factor (BCF)	114848	pH 4	(1) ACD
Bioconc. Factor (BCF)	114848	pH 7	(1) ACD
Bioconc. Factor (BCF)	114848	pH 8	(1) ACD
Bioconc. Factor (BCF)	114848	pH 10	(1) ACD
Boiling Point (BP)	558.0+/-50.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (HVAP)	84.00+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	238.9+/-54.3 deg C		(1) ACD
Freely Rotatable Bonds (FRB)	10		(1) ACD
H acceptors (HAC)	6		(1) ACD
H donors (HD)	0		(1) ACD
Koc (KOC)	145752	pH 1	(1) ACD
Koc (KOC)	145752	pH 4	(1) ACD
Koc (KOC)	145752	pH 7	(1) ACD
Koc (KOC)	145752	pH 8	(1) ACD
Koc (KOC)	145752	pH 10	(1) ACD
logD (LOGD)	6.96	pH 1	(1) ACD
logD (LOGD)	6.96	pH 4	(1) ACD
logD (LOGD)	6.96	pH 7	(1) ACD
logD (LOGD)	6.96	pH 8	(1) ACD
logD (LOGD)	6.96	pH 10	(1) ACD
logP (LOGP)	6.961+/-0.549		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	452.54		(1) ACD
Vapor Pressure (VP)	1.74E-12 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.76 ((C) 1994-2003 ACD)

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